

### Amendments to the Claims

1. (Currently Amended) A catalyst for dimethyl carbonate synthesis, which is used for producing dimethyl carbonate from acetone dimethyl acetal and CO<sub>2</sub> in a supercritical state, wherein the catalyst is obtained by loading a strong acid on a carrier composed of a compound having a solid-state site, and wherein the strong acid contains one or more compounds selected from SO<sub>4</sub><sup>2-</sup> and PO<sub>4</sub><sup>3-</sup>.

2. (Cancelled)

3. (Original) The catalyst for dimethyl carbonate synthesis according to claim 1, wherein the compound having a solid acid site is one or more selected from ZrO<sub>2</sub>, Al<sub>2</sub>O<sub>3</sub>, and TiO<sub>2</sub>.

4. (Cancelled)

5. (Original) The catalyst for dimethyl carbonate synthesis according to claim 3, wherein the specific surface area of the carrier composed of one or more selected from ZrO<sub>2</sub>, Al<sub>2</sub>O<sub>3</sub>, and TiO<sub>2</sub> is 40 to 200 m<sup>2</sup>/g.

6. (Cancelled)